

Port of GlasgowReceived at London Office 10th Nov 1904No. in Survey held at Glasgow  
Reg. Book.Date, first Survey 25th MayLast Survey 10th Oct 1904(Number of Visits 27)

on the

S.S. "THE PRESIDENT."Tons } Gross  
NetWhen built 1904

Master

Built at TroonBy whom built Ailsa S. B. CoEngines made at GlasgowBy whom made Muir & Houston Ltd.when made 1904Boilers made at GlasgowBy whom made Muir & Houston Ltd.when made 1904

Registered Horse Power

Owners J. HayPort belonging to GlasgowNom. Horse Power as per Section 28 98Is Refrigerating Machinery fitted NoIs Electric Light fitted NoENGINES, &c.—Description of Engines Compound - ScrewNo. of Cylinders 2No. of Cranks 2Dia. of Cylinders 20 1/2" + 44"Length of Stroke 30"Revs. per minute 95

Dia. of Screw shaft

as per rule 9.57Material of ironIs the screw shaft fitted with a continuous liner the whole length of the stern tube noIs the after end of the liner made bederwalsin the propeller boss yesIf the liner is in more than one length are the joints burned ✓

If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓

If two

liners are fitted, is the shaft lapped or protected between the liners no lines, bederwals patentLength of stern bush 3' 4"

Dia. of Tunnel shaft

as per rule 8.52

Dia. of Crank shaft journals

as per rule 8.94Dia. of Crank pin 9 1/8"Size of Crank webs 5 1/4"

Dia. of thrust shaft under

collars 9 1/8"Dia. of screw 10 - 6"Pitch of screw 13 - 6"No. of blades 4State whether moveable noTotal surface 38 sq. ft.No. of Feed pumps 2Diameter of ditto 2 3/4"Stroke 15"Can one be overhauled while the other is at work yesNo. of Bilge pumps 2Diameter of ditto 3"Stroke 15"Can one be overhauled while the other is at work yesNo. of Donkey Engines Two 2" diaSizes of Pumps { 7 x 4 1/2 x 8 } 4 x 2 3/4 x 6

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Two 2" diaIn Holds, &c. Two 2" dia in forwardNo. of bilge injections 1sizes 3"Connected to condenser, or to circulating pump pumpIs a separate donkey suction fitted in Engine room & size yes 2 1/2"Are all the bilge suction pipes fitted with roses yesAre the roses in Engine room always accessible yesAre the sluices on Engine room bulkheads always accessible noneAre all connections with the sea direct on the skin of the ship yesAre they Valves or Cocks Valves & cocksAre they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yesAre the discharge pipes above or below the deep water line aboveAre they each fitted with a discharge valve always accessible on the plating of the vessel yesAre the blow off cocks fitted with a spigot and brass covering plate yesWhat pipes are carried through the bunkers noneHow are they protected ✓Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times yesAre the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yesWhen were stern tube, propeller, screw shaft, and all connections examined in dry dock before launchIs the screw shaft tunnel watertight noneIs it fitted with a watertight door ✓worked from ✓

## BOILERS, &amp;c.—

(Letter for record (S))Total Heating Surface of Boilers 1543 sq. ft.Is forced draft fitted noNo. and Description of Boilers One single endedWorking Pressure 130 lbs Tested by hydraulic pressure to 160 lbsDate of test 7/9/04Can each boiler be worked separately ✓Area of fire grate in each boiler 62 1/2 sq. ft.

No. and Description of safety valves to

each boiler 2 patent springArea of each valve 8.29 sq. in.Pressure to which they are adjusted 135 lbsAre they fitted with easing gear yesSmallest distance between boilers or uptakes and bunkers or woodwork 4" 6"Mean dia. of boilers 14" 3"Length 10' 0"Material of shell plates steelThickness 3/8"Range of tensile strength 28 to 32Are they welded or flanged noDescrip. of riveting: cir. seams doublelong. seams trebleDiameter of rivet holes in long. seams 1 1/8"Pitch of rivets 4 1/2"Lap of plates or width of butt straps 17"

Per centages of strength of longitudinal joint

rivets 86.7plate 85Working pressure of shell by rules 135 lbsSize of manhole in shell 16" x 12"Size of compensating ring McNeil'sNo. and Description of Furnaces in each boiler 3 plainMaterial steelOutside diameter 3' 9"

Length of plain part

top 6' 0"bottom 8' 7"

Thickness of plates

crown 1 1/16"Description of longitudinal joint weldedNo. of strengthening rings noneWorking pressure of furnace by the rules 144 lbsCombustion chamber plates: Material steelThickness: Sides 9/16"Back 9/16"Top 9/16"Bottom 15/16"Pitch of stays to ditto: Sides 8" x 9"Back 9" x 9"Top 8" x 8"If stays are fitted with nuts or riveted heads nutsWorking pressure by rules 135 lbsMaterial of stays steelDiameter at smallest part 1.45"Area supported by each stay 81 sq. in.Working pressure by rules 143 lbs

End plates in steam space:

Material steelThickness 13/16"Pitch of stays 16" x 15"How are stays secured nutsWorking pressure by rules 130 lbsMaterial of stays steelMaterial of Front plates at bottom steelDiameter at smallest part 3.26"Area supported by each stay 240 sq. in.Working pressure by rules 135 lbsMaterial of Front plates at bottom steelThickness 1 1/16"Material of Lower back plate steelThickness 1 1/16"Greatest pitch of stays 13" x 9"Working pressure of plate by rules 130 lbsDiameter of tubes 3 1/2"Pitch of tubes 4.94" x 4.75"Material of tube plates steelThickness: Front 1 1/16"Back 5/8"Mean pitch of stays 9 5/8"Pitch across wide water spaces 14 1/2"Working pressures by rules 171 lbsGirders to Chamber tops: Material iron

Depth and

thickness of girder at centre 7" x 2 - 7/8"Length as per rule 2' 8"Distance apart 8"Number and pitch of Stays in each 3 - 8"Working pressure by rules 130 lbsSuperheater or Steam chest; how connected to boiler ✓

Can the superheater be shut off and the boiler worked

separately ✓Diameter ✓Length ✓Thickness of shell plates ✓Material ✓Description of longitudinal joint ✓

Diam. of rivet

holes ✓Pitch of rivets ✓Working pressure of shell by rules ✓Diameter of flue ✓Material of flue plates ✓Thickness ✓How stayed ✓If stiffened with rings ✓Distance between rings ✓Working pressure by rules ✓End plates: Thickness ✓Working pressure of end plates ✓Area of safety valves to superheater ✓Are they fitted with easing gear ✓

Foundation

W726-0169

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**DONKEY BOILER—** No. *One* Description *ordinary vertical.*  
 Made at *Glasgow* By whom made *Muir Houston Ltd* When made *1904* Where fixed *in stokehold*  
 Working pressure *70* tested by hydraulic pressure to *140 lbs* No. of Certificate *7256* Fire grate area *16 1/2* Description of safety valves *patent spring*  
 No. of safety valves *one* Area of each *7.07* Pressure to which they are adjusted *75 lbs* If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no* Dia. of donkey boiler *5' 0"* Length *10' 6"* Material of shell plates *steel* Thickness *3/8"* Range of tensile strength *27-32* Descrip. of riveting long. seams *double (lap)* Dia. of rivet holes *15/16"* Whether punched or drilled *drilled* Pitch of rivets *3 1/4"*  
 Lap of plating *5"* Per centage of strength of joint *71.1* Thickness of shell crown plates *5/8"* Radius of do. *4' 6"* No. of Stays to do. *none*  
 Dia. of stays. *✓* Diameter of furnace Top *3' 11"* Bottom *4' 5"* Length of furnace *4' 0 3/4"* Thickness of furnace plates *1/2"* Description of joint *welded* Thickness of furnace crown plates *5/8"* Stayed by *✓* Working pressure of shell by rules *92 lbs*  
 Working pressure of furnace by rules *101 lbs* Diameter of uptake *15"* Thickness of uptake plates *1/2"* Thickness of water tubes *7/16"*

**SPARE GEAR.** State the articles supplied:— *Two top end & two bottom end connecting rod bolts, two main bearing bolts, one set of coupling bolts, & one set of feed & bilge pump valves. etc.*

The foregoing is a correct description,

For **MUIR & HOUSTON, LIMITED,**

Manufacturer.

*James Stewart*  
 Dates { During progress of work in shops— 1904 May 25, 30 June 24, 28 July 8, 5, 12, 15, 26, 29 Aug 1, 4, 11, 15, 23, 29.  
 of Survey { During erection on board vessel— Sep 3, 7, 8, 10, 14, 16, 19, 27, 28 Oct 8, 10.  
 while building { Total No. of visits— 27  
 Is the approved plan of main boiler forwarded herewith *Yes*  
 " " " donkey " " " *Yes*

**General Remarks** (State quality of workmanship, opinions as to class, &c.)

*This vessel's machinery is the same as that of "The Emperor." Gls Report No 21677.*

*Machinery is aft—  
 The Machinery of this vessel has been constructed under special survey. the materials & workmanship are of good quality, it has been securely fitted on board, tried under steam & found satisfactory.*

*In my opinion, it is eligible to be classed in the Register Book, & to have the record of **LMC.10.04***

*It is submitted that  
 this vessel is eligible for  
 THE RECORD **LMC.10.04***

*EmS.*

*2.11.04*

*2.11.04*

The amount of Entry Fee. . . £ 1 : : :  
 Special . . . . . £ 14 : 14 : :  
 Donkey Boiler Fee . . . . . £ : : :  
 Travelling Expenses (if any) £ : : :  
 When applied for, 1 NOV 1904  
 When received, 1 NOV 1904

Committee's Minute

Glasgow 31 OCT 1904

Assigned

*+ L.M.C. 10.04*

*When fee is paid*

*EmS*

*J.W. Dimmock*  
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Certificate (if required) to be sent to  
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)